Nishanth M

Web Developer | VAPT Enthusiast

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Career Objective

Engineering student with a **strong foundation in Python, React-based web development, and emerging AI applications**. Actively expanding expertise in software engineering and cybersecurity. Eager to contribute to the development of secure, scalable, and innovative technology solutions in a collaborative environment.

Education

Tamilnadu college of Engineering, CBE

BE Electrical and Electronics Engineering   2023–2027

Technical Skills

Programming Languages

Python (Intermediate), JavaScript (Good)
c. c++, SQL, Bash Scripting

Frameworks & Platforms

React js , Node.js, **Django, Langchain**, Flask
Tailwind CSS, Bootstrap

Tools

Git, GitHub, Firebase, **Docker**

Experience

VAPT Research Intern   *Feb–Mar 2025*

KANIPPORI Cyber Research, Remote

Conducted **vulnerability assessment and penetration testing (VAPT)** on real-world applications, focusing on critical issues such as **Stored XSS in OpenCart (CVE-2022-45136)** and **CSRF in WooCommerce (CVE-2023-31255)**.

Created detailed **Proof-of-Concept (PoC)** exploits using tools like **Burp Suite**, **Nikto**, and **Nmap** to validate and demonstrate security flaws.

Simulated a **ransomware-style attack** through a payment gateway exploit by chaining multiple vulnerabilities, showcasing a high-impact, real-world attack scenario.

Authored comprehensive **technical reports** and delivered a final presentation summarizing threat models, exploitation chains, and actionable mitigation strategies.

Projects

Talk2PDF – PDF to Chat Application

Developed a full-stack web application that enables users to interact with **PDF documents using natural language queries**, powered by a Flask backend integrated with the **Gemini Large Language Model (LLM)** for generating context-aware responses.

Implemented **intelligent image extraction** from relevant PDF sections based on user queries, enhancing visual comprehension and interactivity.

Added support for **chat history with markdown rendering**, providing users with a clean, conversational interface and persistent context.

⭕ Talk2PDF

EduMetric – CGPA/GPA Calculator

Built a responsive web app for **CGPA and GPA calculation**, integrating **Firebase Authentication with Google Sign-In** and deploying on **Netlify** for fast, cross-device access.

Leveraged **Firebase Analytics** to monitor user behavior and applied insights to improve performance and engagement through a data-driven development approach.

⭕ EduMetric

SDAL – Basic Desktop Assistant

Built a lightweight desktop assistant in **Python** capable of performing routine tasks such as file handling, web search, and application launching through command-based input.

Integrated **text-to-speech (TTS)** using `pyttsx3` and implemented task automation with libraries like `os`, `subprocess`, and `webbrowser` for hands-free interaction.

Improved user productivity by providing a **voice-driven automation layer** in a minimal resource footprint, tailored for local desktop environments.

⭕ SDAL – Basic Desktop Assistant

Shop Porul – E-commerce Site

Developed a static e-commerce website using **HTML, CSS, and vanilla JavaScript**, emphasizing a clean, lean user interface and intuitive user flow.

Implemented dynamic product listings and a functional shopping cart system with reusable UI components to handle item display, quantity updates, and checkout logic.

Prioritized performance and responsiveness to ensure consistent functionality and smooth user experience across various devices and screen sizes.

⭕ Shop Porul